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Notice of Allowability	Application No.	Applicant(s)	
	10/620,097	DVOSKIN, LEONID	
	Examiner	Art Unit	
	John C. Hong	3726	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Amendment filed 2/7/05.
2. ☒ The allowed claim(s) is/are 1-18.
3. ☒ The drawings filed on 27 July 2004 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|--|--|
| 1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____. |
| 3. <input checked="" type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date <u>11/30/04</u> | 7. <input type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____. |

REASONS FOR ALLOWANCE

1. The following is an examiner's statement of reasons for allowance:

The prior art fails to teach: Regarding Claim 1, a method for forming a uniform lining of refractory material within the interior of a coreless furnace, comprising : providing a lining form having walls dimensioned to provide a uniform space between the liner walls and the interior of the furnace; providing a carrier for the lining form, said carrier having a structure adapted for concentric location and attachment on top of a lining form, and for carrying the lining form when attached thereto, said carrier further having furnace engagement and locating means for engaging said furnace and locating said lining form, when attached, concentrically within the interior of the furnace, and further having a conical upper surface having an outer diameter substantially equal to the diameter of the lining form; and pouring particulate refractory material onto said conical upper surface, whereby the particulate refractory material is directed into the uniform space between the lining form and the furnace; Regarding Claim 5, a carrier adapted for the formation of a refractory lining of uniform thickness on the interior of a furnace, with the use of a lining form having a cylindrical side wall and a closed bottom and providing, when concentrically supported within the furnace, a uniform space between its exterior surface and the interior surface of the furnace, said carrier comprising a lifting structure adapted for concentric location on and attachment to the top of the lining form and having engaging and locating means adapted for engagement with the furnace and for location of the lining form, when attached, concentrically within the furnace, said carrier further having a conical upper surface with the outside diameter of its lowest edge being substantially equal to the outside diameter of the lining form, and wherein particulate refractory material poured onto the conical

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upper surface is directed into the concentric space; Regarding Claim 7, a fixture for retaining a lining form concentric within the furnace during compaction of refractory materials, comprising a pair of locking means for installation in a pair of alignment holes formed in the furnace, a holding bar adapted to be fastened to attachment means formed inside the top of the lining form, and a main bar carrying engagement and holding means for engaging the locking means of the furnace when installed on the furnace, and locking mechanisms for clamping to the holding bar, whereby the main bar and the holding bar, when connected together and to the furnace; Regarding Claim 9, a method for forming a uniform lining of refractory material within the interior of a coreless furnace, comprising : providing a lining form having walls dimensioned to provide a uniform space between the liner walls and the interior of the furnace; providing a carrier for the lining form, the carrier having a structure adapted for concentric location and attachment on top of a lining form, and for carrying the lining form when attached thereto, the carrier further having furnace engagement and locating means for engaging the furnace and locating said lining form, when attached, concentrically within the interior of the furnace; attaching the carrier concentrically on top of the lining form; and lowering at least part of the lining form into the interior of the furnace while engaging the furnace engagement and locating means of the carrier with the furnace, thereby concentrically locating the lining form within the furnace, and providing a uniform space therebetween; Regarding Claim 12, a carrier for a lining form adapted to form a refractory lining of uniform thickness at the interior furnace walls, with the use of a lining form having a cylindrical side wall and a closed bottom and providing, when concentrically supported within a furnace, a uniform space between its exterior surface and the

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interior surface of the furnace, the carrier comprising: a lifting structure adapted for concentric location on and attachment to the top of the lining form and having engaging and locating means adapted for engagement with the furnace and for location of the lining form, when attached, concentrically within the furnace, said lining form and carrier having complementary mating means for fastening the carrier to the lining form, wherein the placement of at least part of the lining form within said furnace with the engaging and locating means of the carrier engaged with the furnace locates the lining form concentrically within the furnace to provide a uniform space between the lining form and the surface; and Regarding Claim 16, a method comprising the steps of: providing a lining form having at least one exterior wall disposable in an interior of a furnace having at least one interior wall; providing a carrier having a directing surface, aligning means, and a structure attachable to the lining form; installing at least a part of the lining form into the interior of the furnace while engaging the aligning means with the furnace, thereby creating a substantially uniform space between the at least one exterior wall and the at least one interior wall; pouring refractory material onto the directing surface that directs the refractory material into the uniform space, yielding a substantially uniform lining in the interior of the furnace in combination with the other elements of the claimed invention.


2. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to John C. Hong whose telephone number is 571-272-4529. The examiner can normally be reached on M-F(07:00-16:30)First Friday Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Peter Vo can be reached on 571-272-4690. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



John C. Hong
Primary Examiner
Art Unit 3726

jh
01 May, 2005